NRG Montville Operations Inc.
Montville Generating Station
74 Lathrop Road
Uncasville, CT 06382

Main Phone # 860.848.9248
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January 30, 2017

Ms. Jessica Stefanowicz
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

Subject: Semi-Annual Site Status Update
Montville Generating Station, Montville Power LLC, Montville, CT

Dear Ms. Stefanowicz:

Montville Power LLC is submitting the enclosed Semi-Annual Site Status Update for the Montville Generating Station in Montville, Connecticut. This report provides a site status update for the period of January through November 2016 at the site.

Should you have any questions or require further information, please call Mr. Ian Cambridge at (860) 848-6017.

Thank you,

Nick Volturno
Plant Manager
Montville Power LLC

Enclosure(s)

cc: Juan Perez, USEPA (e-copy only)
Bob Spooner, NRG (e-copy only)
Ian Cambridge, NRG Montville (hard copy and e-copy)
Andrew D. Walker, LEP, CB&I (e-copy only)
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January 16, 2017

Project #: 631207126.01021320

Ms. Jessica Stefanowicz
Connecticut Department of Energy and Environmental Protection
79 Elm Street
Hartford, Connecticut 06106

Subject: Semi-Annual Site Status Update
Montville Generating Station
Montville, Connecticut

Dear Ms. Stefanowicz:

On behalf of Montville Power LLC (Montville Power) and its parent company, NRG Energy, Inc. (NRG), CB&I Environmental and Infrastructure, Inc. (CB&I) has prepared this letter to provide a semi-annual site status update for the subject site. A Site Plan is provided as **Figure 1**. In addition, CB&I is providing the Connecticut Department of Energy & Environmental Protection (CTDEEP) with the schedule for continuing environmental activities at the site. This report covers the period of January through November 2016.

GROUNDWATER MONITORING – JUNE 2016

Groundwater Sampling

Groundwater monitoring during this reporting period was conducted on June 16 and 17, 2016 at the locations and for the parameters listed in the table below. During the June 2016 event, groundwater samples were collected from existing wells to monitor groundwater concentration trends of metals and to assess compliance with applicable criteria. Additional groundwater samples were collected from existing wells in the vicinity of the low permeability caps in AOC 9 for the annual AOC 9 Engineered Control groundwater monitoring.

Sample Location	**Analysis**	
	Annual AOC9 EC GW Monitoring Total As, Ni, Pb, Sb, Se, V by USEPA Method 6010C	**Semi-annual Compliance GW Monitoring** Total As, Be, Cu, Ni, V, Zn by USEPA Method 6010C or low level by USEPA Method 6020A
AOC1-SB2-MW1	X	
AOC3-SB1-MW1		X
AOC3-SB4-MW2		X
AOC12-MW301		X
AOC12-MW302		X
AOC12-MW305		X
AOC12-MW306		X
MV-6	X	X
MW-11	X	
NRG-MW5		X (low level)
NRG-MW7		X
NRG-MW8	X	

Well AOC12-MW304 could not be located and was not sampled as planned during the June 2016 sampling event. Field personnel attempted to locate the well with a Global Positioning System (GPS) unit and a metal detector. Well NRG-MW3 contained only approximately 1 foot of water and was not sampled as planned during the June 2016 sampling event.

During the June 2016 sampling event, depth to groundwater was measured at each of the monitoring wells using an electronic interface probe (IP). The IP used detects water and light non-aqueous phase liquid (LNAPL), if present, to within accuracy of 0.01 foot. LNAPL was not detected in monitoring wells gauged during this event. Non-detects of LNAPL are consistent with previous results. Results of water level monitoring from the June 2015 sampling event are summarized in **Table 1**.

During the June 2016 sampling event, CB&I collected groundwater samples from the monitoring wells using a modified low flow sampling technique. Well locations are shown on **Figure 1**. Each well was pumped at a rate that produced little or no draw down while parameters including temperature, pH, oxidation reduction potential (ORP), dissolved oxygen (DO) and conductivity were monitored. Groundwater samples were then collected after the parameters stabilized to ensure that the each sample was representative of local aquifer conditions. Based upon previous exceedances of the Remediation Standard Regulations (RSR) criteria in groundwater samples collected at the site, groundwater samples were submitted to Accutest Laboratories of Marlborough, Massachusetts for analysis of select total metals including arsenic, beryllium, copper, nickel, vanadium, and zinc. The complete laboratory analytical reports for the June 2016 sampling event is included in **Attachment 1**.

Groundwater Results – Semi-annual Compliance Groundwater Monitoring

Groundwater analytical results from the June 2016 sampling event are summarized in **Table 2** (GA groundwater area monitoring wells) and **Table 3** (GB groundwater area monitoring wells). As appropriate, **Tables 2** and **3** compare groundwater analytical results to the Surface Water Protection Criteria (SWPC), Additional SWPC (vanadium), Alternative SWPC (arsenic, beryllium, copper, and zinc), and groundwater protection criteria (GWPC). CTDEEP approved the Additional and Alternative SWPC for the subject site in their March 13, 2013 letter (CTDEEP, 2013).

The groundwater data from several previous rounds of sampling have indicated that there is little difference between dissolved and total metals concentrations in groundwater at the Montville site (Shaw, 2010). Therefore, at appropriate wells, such as NRG-MW5, comparison of total metals concentrations to the Water Quality Criteria (WQC) is appropriate to evaluate potential impact to the Bartlett Cove area. This comparison is presented in **Table 4**, and includes both freshwater and saltwater criteria.

The concentrations of metals detected in groundwater samples collected during this reporting period are generally consistent with previous results. The data for June 2016 groundwater results are presented in **Tables 2, 3,** and **4** and include the following exceedances:

- At monitoring well NRG-MW5, where comparison to the GWPC (**Table 2**) and WQC (**Table 4**) is appropriate, the concentration of nickel detected in the groundwater sample from June 2016 exceeded the chronic saltwater WQC. The remaining metals were reported at concentrations below the WQC. Detected concentrations were below the GWPC.

- Concentrations of arsenic detected range from below the detection limit at five wells to 112 micrograms per liter (ug/l) at AOC12-MW306. The concentrations of arsenic detected in June 2016 exceeded the Alternative SWPC (10 ug/l) at two (plus one field duplicate) of the 12 wells that were sampled.

Groundwater Results - Annual AOC 9 Engineered Control Groundwater Monitoring

Groundwater monitoring is included as part of the AOC 9 Engineered Control since the low permeable capping is a remedial measure designed to prevent the potential migration of metals impacts from soil in excess of the GA PMC. Details of the groundwater monitoring plan were discussed in the Engineering Control Submittal Part 2 (CB&I, 2013) and the Semi-Annual Site Status Update/Engineered Control and SIP Completion Report (CB&I, 2016b). Annual monitoring will be implemented at up to five monitoring wells: one upgradient well (NRG-MW8), one well in the eastern capped area (NRG-MW3), and three downgradient wells (AOC1-SB2-MW1, MW-11, and MV-6). The samples will be analyzed for the select metals present in soil samples from the capped areas at leachable concentrations greater than the GA PMC (antimony, arsenic, lead, nickel, selenium, and vanadium). The focus of the monitoring is to confirm that the concentrations of COCs in groundwater in the area of AOC 9 comply with the RSRs, or that concentrations of metals in groundwater remain stable.

In June 2016, well NRG-MW3 contained only approximately 1 foot of water and was not sampled as planned during this sampling event. Groundwater analytical results from the June 2016 sampling event are summarized in **Table 2** (GA groundwater area monitoring wells) and **Table 3** (GB groundwater area monitoring wells) with the semi-annual compliance monitoring data. No metals were detected in the samples.

Laboratory Analytical - QA/QC Evaluation

Laboratory analysis completed as part of this assessment was conducted in accordance with CTDEEP's Reasonable Confidence Protocol and the site specific Quality Assurance Project Plan (QAPP). The site specific QAPP was developed for the subject site in accordance with U.S. Environmental Protection Agency (USEPA) guidance (Shaw, 2011). The QAPP presents the requirements and procedures for conducting field sampling activities and investigations at the site so that (1) the data quality objectives specified for this project are met, (2) the field sampling protocols are documented and reviewed in a consistent manner, and (3) scientifically valid and defensible data are collected. Field sampling activities discussed above were completed in general compliance with the QAPP that has been generated for the site.

CB&I requested that laboratory analysis be conducted in accordance with the QAPP and CTDEEP's Reasonable Confidence Protocol (CTDEP, 2007). CB&I performed a data validation review for the laboratory report and documented the results in a data validation worksheet. The data validation worksheet is included with the laboratory reports in **Attachment 1**. This worksheet is consistent with the data quality assessment and data usability evaluations detailed in CTDEEP guidance (CTDEP, 2009)

In general, laboratory analyses were completed in accordance with the site QAPP and CTDEEP's Reasonable Confidence Protocol. However, a few minor quality assurance/quality control (QA/QC) issues, which are summarized in the validation worksheet and laboratory report narrative, were identified. These identified QA/QC issues resulted in some detection limits and reported results being qualified. QA/QC issues noted included:

- The relative percent difference (RPD) of serial dilution samples indicated beryllium, copper, and vanadium were outside control limits. However, the percent difference is considered acceptable due to low initial sample concentration (<50 times instrument detection limit) and no qualification is necessary.
- The RPD of serial dilution sample indicated nickel was outside control limits. However, the percent difference is considered acceptable due to low duplicate and sample concentrations and no qualification is necessary.
- The serial dilution indicates possible matrix interference for zinc; however, no qualification is necessary.

A number of sample results were reported at concentrations less than the reporting limit but greater than the method detection limit. Although this is not specifically a QA/QC issue, the results should be considered estimated and are flagged with a "J". In summary, each of the identified issues had no overall effect on the conclusions drawn from the data, and the data is acceptable for the purposes of this submittal.

ENGINEERED CONTROL INSPECTION AND MAINTENANCE

The Engineered Controls in AOC 3B, AOC 5, AOC 9, and AOC 12 were constructed as reported during the previous reporting period in the Semi-Annual Site Status Update/Engineered Control and SIP Completion Report (CB&I, 2016b). Routine and non-routine inspections will be performed to confirm that the Engineered Controls continue to perform as designed. The first three routine post-construction quarterly inspections were performed on February 6, 2016; June 17, 2016; and October 13, 2016. The inspection reports are provided in **Attachment 2**. Non-routine cap inspections should be performed after major storm events (i.e., approximately 3 inches in a 24-hour period, approximately 2 inches in a 6-hour period, or approximately 1 inch in a 1-hour period). Montville Power performed a non-routine inspection on September 19, 2016, a date with reported total precipitation of 2.19 inches (www.wunderground.com). No impacts, problems, or damage were identified during the inspections and, thus, no repairs were made during this reporting period.

Annual groundwater monitoring for the AOC 9 Engineered Control was performed in June 2016 as discussed earlier in this report. No metals were detected in the samples.

ADDITIONAL ENVIRONMENTAL ACTIVITIES

Additional environmental activities occurring at the site between January and November 2016 are described below:

- Montville Power submitted an Inaccessible Soil Exemption for the soil beneath certain permanent structures at the site (Shaw, 2013). NRG and CB&I respectfully request a response from CTDEEP.

- Montville Power submitted a Remedial Action Plan (RAP) for Groundwater to CTDEEP on February 25, 2016 (CB&I, 2016a). CTDEEP provided comments on the draft and approved publication of the public notice in emails dated April 5, 2016 and April 15, 2016, respectively. The public notice was published in 'The Day' on May 2, 2016. The 45-day public comment period closed June 16, 2016. No public comments were received by CB&I or CTDEEP. Montville Power submitted the Final Groundwater RAP (revisions dated June 16, 2016) to CTDEEP for approval on June 21, 2016. CTDEEP issued a concurrence letter on June 30, 2016 (CTDEEP, 2016).

- Montville Power submitted a Site-Wide RAP dated July 19, 2016 to CTDEEP on August 8, 2016 (CB&I, 2016c). The public notice was published in 'The Day' on August 4, 2016. The 45-day public comment

period closed on September 18, 2016. No public comments were received by CB&I or CTDEEP. Montville Power submitted the Final Site-Wide RAP to CTDEEP for approval on September 27, 2016. CTDEEP accepted the document for achievement of the remedy selection milestone in a letter to USEPA dated September 26, 2016 and indicated that they have no comments on the Site-Wide RAP in an email dated November 30, 2016.

- Drilling activities for the Groundwater RAP pilot test commenced on November 14, 2016 and were completed on December 22, 2016. The drilling included installation of 3 EnviroBlend (EB) injection wells, 1 EB injection area monitoring well, and 1 TerraBond-Mg (TB) injection area monitoring well. The pilot test for injection of EB and TB per the Groundwater RAP started immediately following drilling activities and post-injection monitoring will be completed in Spring 2017. Pilot test activities will be reported under separate cover.

SITE SCHEDULE

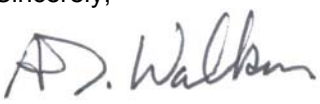
Outlined below is the site schedule that Montville Power and NRG expect to follow.

Activity	Anticipated Date
Post Construction Engineered Control Inspections	Q4 2016, Q2 & Q4 2017
Compliance Groundwater Monitoring	Q4 2016, Q2 2017 (EC annual)
Groundwater RAP Pilot Test Complete	Q2 2017
ELUR Complete	2017
Groundwater RAP Injections Begin	Q3 2017
Groundwater RAP Completion Report	2022

NRG and Montville Power will continue to provide updates on the status of response actions at the subject site on a semi-annual basis as requested by CTDEEP. Plans, submittals, and reports will be copied to the USEPA.

If you have any questions regarding this letter or any other site matter, please do not hesitate to call me at 617-589-6143.

Sincerely,



Andrew D. Walker, LEP, LSP
Project Manager
CB&I Environmental and Infrastructure, Inc.

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Enclosures:

Tables

Table 1 - Groundwater Gauging Data – June 2016

Table 2 - Groundwater Analytical Results – GA Area January – June 2016
Table 3 - Groundwater Analytical Results – GB Area January – June 2016
Table 4 - Groundwater Analytical Results – NRG-MW5 Total Metals Compared to WQC

Figures

Figure 1 - Site Plan

Attachments

Attachment 1 - Laboratory Analytical Reports for Groundwater with Data Validation Worksheet
Attachment 2 - Engineered Control Inspection Reports

cc: Mr. Ian Cambridge, Montville Power LLC (hard copy and electronic)
Mr. Robert Spooner, NRG (electronic only)
Mr. Juan Perez, USEPA (electronic only)

REFERENCES

CB&I, 2013. Engineering Control Submittal Part 2. Montville Electric Generating Station, Montville, Connecticut. February 2013.

CB&I, 2016a. Remedial Action Plan for Groundwater, Montville Electric Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. February 25, 2016 (revisions dated June 16, 2016).

CB&I, 2016b. Semi-Annual Site Status Update/Engineered Control and SIP Completion Report, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. April 8, 2016.

CB&I, 2016c. Site Wide Remedial Action Plan, Montville Generating Station, Montville, Connecticut. CB&I Environmental and Infrastructure, Inc. July 19, 2016.

CTDEP, 2007. Laboratory Quality Assurance and Quality Control Guidance, Reasonable Confidence Protocols Guidance Document. Connecticut Department of Environmental Protection. November 2007.

CTDEP, 2009. Laboratory Quality Assurance and Quality Control, Data Quality Assessment and Data Usability Evaluation. Connecticut Department of Environmental Protection. May 2009.

CTDEEP, 2013. Request for Criteria for Additional Polluting Substances and Alternative Criteria, Montville Station, 74 Lathrop Road, Montville. Connecticut Department of Energy & Environmental Protection. March 13, 2013.

CTDEEP, 2016. Groundwater Remedial Action Plan, Montville Station, 74 Lathrop Road, Montville, REM ID 4204. June 30, 2016

Shaw, 2010. Semi-annual Site Status Update and Schedule Adjustment Request, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. February 17, 2010.

Shaw, 2011. Quality Assurance Project Plan, NRG Montville Generating Station. Shaw Environmental, Inc. March 2008, Revised August 2011.

Shaw, 2013. Notice of Inaccessible Soil Exemptions, Montville Generating Station, Montville, Connecticut. Shaw Environmental, Inc. April 30, 2013.

TABLES

TABLE 1
GROUNDWATER GAUGING DATA *09/14/16*
(06/16/16 - 06/17/16)

Montville Power LLC
74 Lathrop Road
Montville, Connecticut

Location	Date	Reference Elevation (Feet)	Depth to Water (Feet)	Depth to LNAPL (Feet)	LNAPL Thickness (Feet)	Groundwater Elevation (Feet)	Notes
AOC1-SB2-MW-1	06/16/16	9.53	3.50	--	--	6.03	DTB = 9.88'
AOC12-MW-301	06/17/16	14.44	11.62	--	--	2.82	DTB = 18.47'
AOC12-MW-302	06/17/16	10.85	6.58	--	--	4.27	DTB = 14.16'
AOC12-MW-305	06/16/16	13.57	11.13	--	--	2.44	DTB = 17.98'
AOC12-MW-306	06/17/16	13.82	11.68	--	--	2.14	DTB = 18.95'
AOC3-SB1-MW-1	06/17/16	10.04	7.65	--	--	2.39	DTB = 14.70'
AOC3-SB4-MW-2	06/16/16	6.51	4.44	--	--	2.07	DTB = 12.04'
MV-06	06/16/16	12.26	8.13	--	--	4.13	DTB = 18.54'
MW-11	06/17/16	13.41	6.37	--	--	7.04	DTB = 15.88'
NRG-MW-05	06/16/16	10.59	10.58	--	--	0.01	DTB = 20.35'
NRG-MW-07	06/16/16	8.05	6.99	--	--	1.06	DTB = 17.30'
NRG-MW-08	06/17/16	44.31	31.72	--	--	12.59	DTB = 40.30'

Notes: -- = Not Detected NA = Not Available NM = Not Measured DTB = Depth to Bottom
<0.01 = Trace amount LNAPL detected

Table 2
Groundwater Analytical Results
GA Area January to June 2016
Montville Power LLC
Montville, CT

		GWPC	NRG-MW-05 6/16/2016	NRG-MW-08 6/17/2016
Metals (Total)				
Antimony	(ug/l)	6	---	<6.0
Arsenic	(ug/l)	10	4.7	<4.0
Beryllium	(ug/l)	4	0.097BJ	---
Copper	(ug/l)	1300	0.53BJ	---
Lead	(ug/l)	15	---	<5.0
Nickel	(ug/l)	100	9.7	<40
Selenium	(ug/l)	50	---	<10
Vanadium	(ug/l)	50	7.9BJ	<10
Zinc	(ug/l)	5000	28.9	---
Field Parameters				
pH		NE	5.11	6.29
ORP	(mv)	NE	78.7	60.6
Dissolved Oxygen	(mg/l)	NE	0.56	3.66
Specific Conductivity	(ms/cm)	NE	0.151	0.232
Temperature	(deg.C)	NE	13.38	12.88
Turbidity	(ntu)	NE	0.5	0.4

Notes:

GWPC = Groundwater Protection Criteria
--- = Constituent not analyzed for.
NE = None Established.
ug/L = micrograms per liter
mg/L = milligrams per liter
mS/cm = milliseimens per centimeter
deg. C = degrees celcius
mV = millivolts
ntu = nephelometric turbidity unit

J = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Organics) or estimated based on data validation
B = Analyte less than reporting limit (RL), but greater than Instrument Detection Limit or Method Detection Limit (Inorganics)
All results have been validated.

Table 3
Groundwater Analytical Results
GB Area January to June 2016
Montville Power LLC
Montville, CT

CONSTITUENT	UNITS	SWPC or Alt/Add SWPC (1)	AOC1-SB2-MW-1 6/16/2016 Primary	AOC12-MW-301 6/17/2016 Primary	AOC12-MW-302 6/17/2016 Primary	AOC12-MW-305 6/16/2016 Primary	AOC12-MW-306 6/16/2016 Primary	AOC12-MW-306 6/16/2016 Duplicate 1	AOC3-SB1-MW-1 6/17/2016 Primary	AOC3-SB4-MW-2 6/16/2016 Primary	MV-06 6/16/2016 Primary	MW-11 6/17/2016 Primary	NRG-MW-07 6/16/2016 Primary
Metals(Total)													
Antimony	(ug/l)	86000	<6.0	---	---	---	---	---	---	---	<6.0	<6.0	---
Arsenic	(ug/l)	10 (1)	<4.0	<4.0	<4.0	{29.4}	{112}	{107}	6.8	4.6	<4.0	<4.0	8.6
Beryllium	(ug/l)	20 (1)	---	<4.0	<4.0	<4.0	<4.0	<4.0	5.2	<4.0	<4.0	---	<4.0
Copper	(ug/l)	310 (1)	---	<25	<25	<25	<25	<25	55.5	<25	<25	---	<25
Lead	(ug/l)	810 (1)	<5.0	---	---	---	---	---	---	---	<5.0	<5.0	---
Nickel	(ug/l)	880	<40	54.7	<40	<40	<40	<40	139	<40	<40	47.6	<40
Selenium	(ug/l)	50	<10	---	---	---	---	---	---	---	<10	<10	---
Vanadium	(ug/l)	4400 (1)	<10	<10	<10	<10	109	106	11.4	<10	<10	<10	<10
Zinc	(ug/l)	810 (1)	---	67.4	52.8	22.7	96	73.7	268	20.6	<20	---	191
Field Parameters													
pH		NE	4.55	2.92	2.06	5.81	3.63	---	3.22	5.56	5.11	3.07	5.97
ORP	(mV)	NE	166.9	378.4	216.5	-26.1	221.5	---	447.8	6.3	170.8	195	-38
Dissolved Oxygen	(mg/l)	NE	4.55	0.26	0.19	0.47	0.15	---	0.39	0.58	2.6	5.94	0.7
Specific Conductivity	(mS/cm)	NE	0.26	0.869	0.118	0.415	0.413	---	2.416	0.212	0.174	0.244	2.084
Temperature	(deg.C)	NE	16.93	16.18	17.41	14.68	16.29	---	16.45	15.32	12.6	15.51	17.78
Turbidity	(ntu)	NE	0.4	0.4	0.4	0.4	0.6	---	0.3	0.6	0.2	0.3	0.4

Notes:

SWPC = Surface Water Protection Criteria

--- = Constituent not analyzed for.

NE = None Established.

(1)= Approved Alternative and Additional SWPC in March 13, 2013 CTDEEP letter

{Red Highlight} = Result is above appropriate SWPC

ug/L = micrograms per liter

mg/L = milligrams per liter

mS/cm = milliseimens per centimeter

deg. C = degrees celcius

ntu = nephelometric turbidity unit

All results have been validated.

Table 4
Groundwater Analytical Results
NRG-MW5 Total Metals Compared to WQC
Montville Power LLC
Montville, Connecticut

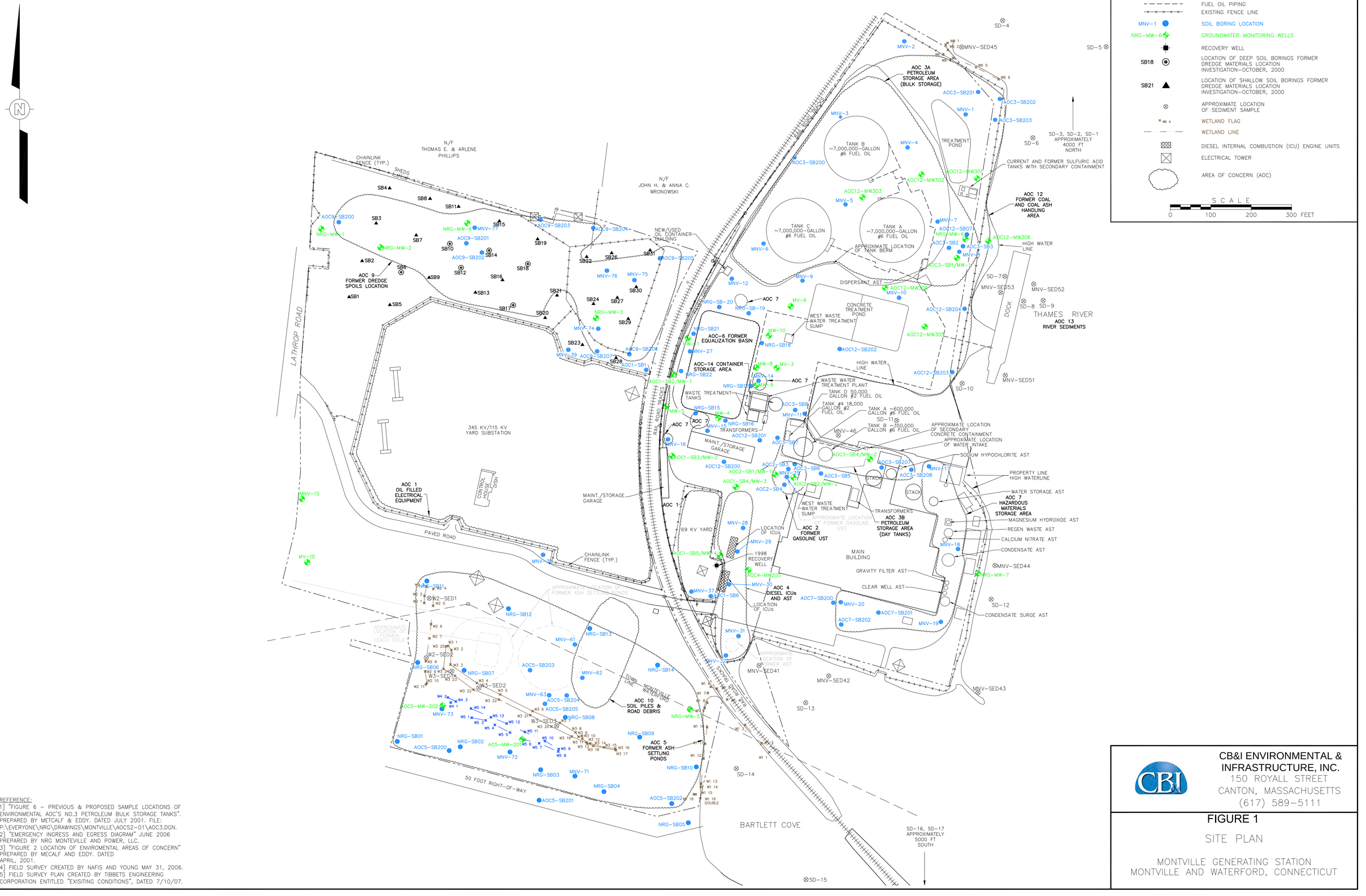
Constituent (ug/L)	Chronic WQC Fresh	Chronic WQC Salt	NRG-MW-05 9/26/2011	NRG-MW-05 9/28/2012	NRG-MW-05 5/8/2013	NRG-MW-05 3/11/2014	NRG-MW-05 6/11/2014	NRG-MW-05 9/26/2014	NRG-MW-05 12/5/2014	NRG-MW-05 5/28/2015	NRG-MW-05 12/4/2015	NRG-MW-05 6/16/2016
Arsenic	150	36	1.8BJ	2.1BJ	<2.9	4.9	4.3	8.3	9.4	6.3	8.1J	4.7
Beryllium	NE	NE	<0.24	<0.28	<0.25	0.084BJ	0.093BJ	0.098BJ	0.055BJ	0.083BJ	0.067BJ	0.097BJ
Copper	4.8	3.1	<2.5	{3.2}BJ	<7.0	<0.89	<0.89	1.7BJ	0.61BJ	<1.0	<1.0	0.53BJ
Nickel	28.9	8.2	{9.9}BJ	{9.0}BJ	{11.5}BJ	{9.5}	{9.1}	{12.6}	{10.3}	{9.4}	{10.2}J	{9.7}
Vanadium	NE	NE	<1.5	1.5BJ	<2.8	4	3.3BJ	4.3	4.8	5.9BJ	6.3BJ	7.9BJ
Zinc	65	81	25.3	<23.7U	<23.3U	<18.9U	<15.1U	19.7	<15.6U	<18.0U	<17.2U	28.9

Notes:
WQC = Numerical Water Quality Criteria for Chemical Constituents.
ug/L = micrograms per liter.
B = Less than detection limit (inorganics), lab qualifier.
J - Less than detection limit, validation qualifier.
U = Result determined to be non-detect at indicated detection limit, based on validation protocol.
{Red Highlight} = Result is greater than WQC Chronic Fresh or WQC Chronic Salt.
NE = None established.
All results have been validated.

FIGURES

OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
STOUGHTON	CD 12/29/12	RC 12/29/12	-- --	100964400-SITEPLAN

File: T:\MISC\N.R.G\MONTVILLE\100964400-SITEPLAN.dwg Layout: SITE PLAN User: chris.desiato Jun 13, 2013 - 6:17pm



LEGEND

- PROPERTY BOUNDARY
- FUEL OIL PIPING
- EXISTING FENCE LINE
- MNV-1 SOIL BORING LOCATION
- NRG-MW-6 GROUNDWATER MONITORING WELLS
- RECOVERY WELL
- SB18 LOCATION OF DEEP SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION-OCTOBER, 2000
- SB21 LOCATION OF SHALLOW SOIL BORINGS FORMER DREDGE MATERIALS LOCATION INVESTIGATION-OCTOBER, 2000
- APPROXIMATE LOCATION OF SEDIMENT SAMPLE
- WS 4 WETLAND FLAG
- WETLAND LINE
- DIESEL INTERNAL COMBUSTION (ICU) ENGINE UNITS
- ELECTRICAL TOWER
- AREA OF CONCERN (AOC)

SCALE
0 100 200 300 FEET

REFERENCE:
1] "FIGURE 6 - PREVIOUS & PROPOSED SAMPLE LOCATIONS OF ENVIRONMENTAL AOC'S NO.3 PETROLEUM BULK STORAGE TANKS". PREPARED BY METCALF & EDDY. DATED JULY 2001. FILE: P:\EVERYONE\NRG\DRAWINGS\MONTVILLE\AOCS2-01\AOC3.DGN.
2] "EMERGENCY INGRESS AND EGRESS DIAGRAM" JUNE 2006 PREPARED BY NRG MONTEVILLE AND POWER, LLC.
3] "FIGURE 2 LOCATION OF ENVIROMENTAL AREAS OF CONCERN" PREPARED BY MECALF AND EDDY. DATED APRIL, 2001.
4] FIELD SURVEY CREATED BY NAFIS AND YOUNG MAY 31, 2006.
5] FIELD SURVEY PLAN CREATED BY TIBBETS ENGINEERING CORPORATION ENTITLED "EXISITING CONDITIONS", DATED 7/10/07.

CB&I ENVIRONMENTAL & INFRASTRUCTURE, INC.
150 ROYALL STREET
CANTON, MASSACHUSETTS
(617) 589-5111

FIGURE 1

SITE PLAN

MONTVILLE GENERATING STATION
MONTVILLE AND WATERFORD, CONNECTICUT

ATTACHMENT 1

LABORATORY ANALYTICAL REPORTS FOR GROUNDWATER WITH DATA VALIDATION WORKSHEET

Data Usability Worksheet

Project Name : NRG Montville
Job Number : 1009644013

Prepared By: Cathy Joe Mainville
Date : 7/6/2016
Validated By: Kim Napier
Date : 9/13/2016
Matrix: Groundwater

Analyte Group : Select metals
Low Level Metals
Analytical Method : EPA 6010C
EPA 6020

Completed RCP Certification Form included: Yes
Laboratory ID No. : MC46508
MC46508A

Chain of Custody included in Data Package ? Yes
Is it Complete ? Yes

Sample Collection Date	Analysis	Time for extraction	Holding Time for analysis	Analysis Date
6/16/2016	EPA 6020 (Low Level Metals)	180 Days	180 Days	6/27/16
6/16/2016-6/17/2016	EPA 6010C (METALS)	180 Days	180 Days	6/24/16

Sample temperature within QC limits: Yes, 0.6 °C

Surrogate Recovery
Are all % recoveries within the allowable range ? NA

If No, List sample ID where range was exceeded: N/A

MS/MSD
Are all MS/MSD sample recoveries within the QC limits ? Yes

If No, list sample ID, date and compound where limit was ex N/A

Laboratory Control Samples
Are all laboratory control sample recoveries within the QC lin Yes

If no, list sample ID where range was exceeded:

Equipment Field Blank ID : EQUIPMENT BLANK 6/16/2016
Trip Blank ID : N/A

Method Blank: 6/23/16, 6/24/2016

Were any compounds identified in the method blank, field blank or trip blank above detection limits ? No

If so, list Sample ID/Compound/Concentration/Units:

Notes:

Batch ID: MP26448
Sample(s) MC46508-1MS, MC46508-1MSD, MC46508-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Beryllium, Copper are outside control limits for sample MP26448-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Batch ID: MP26454
Sample(s) MC46569-1SDL were used as the QC samples for metals.

RPD(s) for Serial Dilution for Beryllium, Vanadium are outside control limits for sample MP26454-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

MP26454-SD1 for Nickel: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.

MP26454-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Reviewed By: Kim Napier

e-Hardcopy 2.0
Automated Report

Technical Report for

CB&I

NRG Montville Lathrop Road, Montville, CT

1009644013 PO#112003

SGS Accutest Job Number: MC46508

Sampling Dates: 06/16/16 - 06/17/16

Report to:

vallerie.sasso@cbi.com

ATTN: Distribution6

Total number of pages in report: **41**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Sections: 1 2 3 4 5 6

Table of Contents

Sample Summary

CB&I

Job No: MC46508

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644013 PO#112003

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC46508-1	06/16/16	08:40	DL	06/21/16	AQ	Ground Water	AOC12-MW305
MC46508-2	06/16/16	13:05	DL	06/21/16	AQ	Ground Water	NRG-MW7
MC46508-3	06/16/16	11:35	DL	06/21/16	AQ	Ground Water	AOC3-SB4-MW2
MC46508-4	06/16/16	10:20	DL	06/21/16	AQ	Ground Water	AOC12-MW306
MC46508-5	06/16/16	10:20	DL	06/21/16	AQ	Ground Water	AOC12-MW306 DUP
MC46508-6	06/17/16	11:25	DL	06/21/16	AQ	Ground Water	AOC12-MW301
MC46508-7	06/17/16	09:25	DL	06/21/16	AQ	Ground Water	AOC3-SB1-MW1
MC46508-8	06/17/16	12:30	DL	06/21/16	AQ	Ground Water	AOC12-MW-302
MC46508-9	06/16/16	07:50	DL	06/21/16	AQ	Equipment Blank	EQUIPMENT BLANK
MC46508-11	06/17/16	08:30	DL	06/21/16	AQ	Ground Water	NRG-MW8
MC46508-12	06/16/16	10:40	DL	06/21/16	AQ	Ground Water	AOC1-SB2-MW1
MC46508-13	06/17/16	13:45	DL	06/21/16	AQ	Ground Water	MW-11
MC46508-14	06/16/16	09:40	DL	06/21/16	AQ	Ground Water	MV-6

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	CB&I	**Job No**	MC46508
Site:	NRG Montville Lathrop Road, Montville, CT	**Report Date**	7/5/2016 8:07:06 AM

13 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 06/16/2016 and 06/17/2016 and were received at SGS Accutest New England on 06/21/2016 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC46508. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6010C

Matrix: AQ **Batch ID:** MP26448

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46508-1MS, MC46508-1MSD, MC46508-1SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Beryllium, Copper are outside control limits for sample MP26448-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- Only selected metals requested.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC46508).

Summary of Hits

Job Number: MC46508
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 06/16/16 thru 06/17/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46508-1	**AOC12-MW305**					
Arsenic		29.4	4.0		ug/l	SW846 6010C
Zinc		22.7	20		ug/l	SW846 6010C
MC46508-2	**NRG-MW7**					
Arsenic		8.6	4.0		ug/l	SW846 6010C
Zinc		191	20		ug/l	SW846 6010C
MC46508-3	**AOC3-SB4-MW2**					
Arsenic		4.6	4.0		ug/l	SW846 6010C
Zinc		20.6	20		ug/l	SW846 6010C
MC46508-4	**AOC12-MW306**					
Arsenic		112	4.0		ug/l	SW846 6010C
Vanadium		109	10		ug/l	SW846 6010C
Zinc		96.0	20		ug/l	SW846 6010C
MC46508-5	**AOC12-MW306 DUP**					
Arsenic		107	4.0		ug/l	SW846 6010C
Vanadium		106	10		ug/l	SW846 6010C
Zinc		73.7	20		ug/l	SW846 6010C
MC46508-6	**AOC12-MW301**					
Nickel		54.7	40		ug/l	SW846 6010C
Zinc		67.4	20		ug/l	SW846 6010C
MC46508-7	**AOC3-SB1-MW1**					
Arsenic		6.8	4.0		ug/l	SW846 6010C
Beryllium		5.2	4.0		ug/l	SW846 6010C
Copper		55.5	25		ug/l	SW846 6010C
Nickel		139	40		ug/l	SW846 6010C
Vanadium		11.4	10		ug/l	SW846 6010C
Zinc		268	20		ug/l	SW846 6010C
MC46508-8	**AOC12-MW-302**					
Zinc		52.8	20		ug/l	SW846 6010C

Summary of Hits

Job Number: MC46508
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 06/16/16 thru 06/17/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46508-9	**EQUIPMENT BLANK**					
No hits reported in this sample.						
MC46508-11	**NRG-MW8**					
No hits reported in this sample.						
MC46508-12	**AOC1-SB2-MW1**					
No hits reported in this sample.						
MC46508-13	**MW-11**					
Nickel		47.6	40		ug/l	SW846 6010C
MC46508-14	**MV-6**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	AOC12-MW305		
Lab Sample ID:	MC46508-1	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	29.4	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	22.7	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID: NRG-MW7
Lab Sample ID: MC46508-2
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 06/16/16
Date Received: 06/21/16
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	8.6	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	191	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB4-MW2		
Lab Sample ID:	MC46508-3	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.6	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	20.6	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW306		
Lab Sample ID:	MC46508-4	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	112	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	109	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	96.0	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW306 DUP
Lab Sample ID: MC46508-5
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 06/16/16
Date Received: 06/21/16
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	107	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	106	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	73.7	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC12-MW301		
Lab Sample ID:	MC46508-6	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	54.7	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	67.4	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC3-SB1-MW1		
Lab Sample ID:	MC46508-7	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	6.8	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	5.2	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	55.5	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	139	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	11.4	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	268	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID: AOC12-MW-302
Lab Sample ID: MC46508-8
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 06/17/16
Date Received: 06/21/16
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	52.8	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID: EQUIPMENT BLANK
Lab Sample ID: MC46508-9
Matrix: AQ - Equipment Blank
Project: NRG Montville Lathrop Road, Montville, CT

Date Sampled: 06/16/16
Date Received: 06/21/16
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NRG-MW8		
Lab Sample ID:	MC46508-11	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	AOC1-SB2-MW1		
Lab Sample ID:	MC46508-12	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	MC46508-13	**Date Sampled:**	06/17/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	47.6	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Report of Analysis

Client Sample ID:	MV-6		
Lab Sample ID:	MC46508-14	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/21/16
		Percent Solids:	n/a
Project:	NRG Montville Lathrop Road, Montville, CT		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Antimony	< 6.0	6.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Arsenic	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Beryllium	< 4.0	4.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Copper	< 25	25	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Lead	< 5.0	5.0	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Nickel	< 40	40	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Selenium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Vanadium	< 10	10	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]
Zinc	< 20	20	ug/l	1	06/23/16	06/24/16	EAL	SW846 6010C [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA19269
(2) Prep QC Batch: MP26448

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking # | Bottle Order Control # | Accutest Quote # | Accutest Job # MC46508

Client / Reporting Information	Project Information
Company Name: CB&I Environmental	Project Name: NRG Montville
Street Address: 150 Royall Street	Street: Lathrop Rd.
City/State/Zip: Canton, MA 02021	City: Uncasville, CT
Project Contact / E-mail: Andrew.Walker@cbi.com	Project#: 1009644013
Phone #: 617-589-6143 / Fax #	Client PO#: 112003
Sampler(s) Name(s) / Phone #: Daniel Leahy 617-212-8276	Project Manager: Andrew Walker

Billing Information (If different from Report to): Company Name / Street Address / City / State / Zip / Attention / PO#

Requested Analysis (see TEST CODE sheet):
- A: EPA 6010C TOTAL METALS (AS, BE, CU, NI, V, ZN)
- B: EPA 6010C TOTAL METALS (An, AS, BE, CU, PB, NI, SB, V, ZN)
- C: DETECTION LIMITS MUST MEET GA GWPC
- D: EPA 6020A LOW LEVEL TOTAL METALS (AS, BE, CU, NI, V, + ZN), REPORT RESULTS TO MDL ON A SEPARATE REPORT. DETECTION LIMITS MUST MEET GA GWPC

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HNO3 (preserved)	A	B	D	LAB USE ONLY
-1	AOC12-MW305		6/16/16	0840	DL	GW	1	1	1			
-2	NRG-MW7		6/16/16	1305			1	1	1			
-3	AOC3-SB4-MW2		6/16/16	1135			1	1	1			
-4	AOC12-MW306		6/16/16	1020			1	1	1			
-5	AOC12-MW306 DUP		6/16/16	1020			1	1	1			
-6	AOC12-MW301		6/17/16	1125			1	1	1			
-7	AOC3-SB1-MW1		6/17/16	0925			1	1	1			
-8	AOC12-MW302		6/17/16	1230			1	1	1			
-9	~~NRG~~ EQUIPMENT BLANK		6/16/16	0750		EW	1	1	~~1~~	1		
-10	NRG-MW5		6/16/16	1445		GW	1	1			1	

Annotations: incorrect abbreviation 'An' should be 'Sb' for antimony.
Detection limits must meet GA GWPC and CT WQC.

Turnaround Time (Business days): [X] Std. 10 Business Days; [ ] Std. 5 Business Days (By Contract only); [ ] 5 Day RUSH; [ ] 3 Day EMERGENCY; [ ] 2 Day EMERGENCY; [ ] 1 Day EMERGENCY

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information: [ ] Commercial "A" (Level 1); [ ] Commercial "B" (Level 2); [ ] FULLT1 (Level 3+4); [X] CT RCP; [ ] MA MCP; [ ] NYASP Category A; [ ] NYASP Category B; [ ] State Forms; [X] EDD Format GISKEY; [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions: CTDEP RCP + SITE SPECIFIC QAPP ~~DETECTION LIMITS MUST MEET~~ CT STANDARDS AND WATER QUALITY CRITERIA FOR NRG-MW5, REPORT RESULTS TO MDL ON SEPARATE REPORT FOR NRG-MW5

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/18/16 0630	1	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [ ] Cooler Temp.

REVISED 6/21/16

MC46508: Chain of Custody
Page 1 of 5

5.1 5

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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www.accutest.com

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: MC46508

Client / Reporting Information		Project Information	
Company Name	CB&I Environmental	Project Name	NRG Montville
Street Address	150 Royall Street	Street	Lathrop Rd.
City, State, Zip	Canton, MA 02021	City	Uncasville, CT
Project Contact / E-mail	Andrew Walker 617-589-6143	Project#	1009644013
Phone # / Fax #	617-589-6143	Client PO#	112003
Sampler(s) Name(s) / Phone #	Daniel Leahy 617-212-8276	Project Manager	Andrew Walker

Billing Information (If different from Report to): Company Name; Street Address; City; State; Zip; Attention; PO#

Requested Analysis (see TEST CODE sheet):
- A: EPA 6020A Total Metals An, As, Pb, Ni, Se, V — Detection Limits must meet CA GWPC
- B: EPA 6010C Total Metals An, As, Pb, Ni, Se, V

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	A	B	LAB USE ONLY
-1	NRG-MW8		6/17/16	0830	DL	GW	1			1							1		
-2	AOC1-SB2-MW1		6/16/16	1040	DL	↓	1			1								1	
-3	MW-11		6/17/16	1345	DL	↓	1			1								1	
-4	MV-6		6/16/16	0940	DL	↓	1			1								↓	

Annotations:
- incorrect abbreviation 'An' should be 'Sb' for antimony.
- incorrect abbreviation 'An' should be 'Sb' for antimony.
- sample 'MV-6' also needs to be analyzed for beryllium, copper, and zinc.

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GIS KEY
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions: CTDEP RCP AND SITE SPECIFIC QAPP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/18/16 0630	1	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

5.1
5

MC46508: Chain of Custody
Page 2 of 5

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www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #: | Bottle Order Control #: | Accutest Quote #: | Accutest Job #: MC46508

Client / Reporting Information

- Company Name: CB&I Environmental
- Street Address: 150 Royall Street
- City / State / Zip: Canton, MA 02021
- Project Contact / E-mail: Andrew.Walker@cbi.com
- Phone #: 617-589-6143 Fax #:
- Sampler(s) Name(s) / Phone #: Daniel Leahy 617-212-8276

Project Information

- Project Name: NRG Montville
- Street: Lathrop Rd.
- City: Uncasville, CT
- Project#: 1009644013
- Client PO#: 112003
- Project Manager: Andrew Walker

Billing Information (If different from Report to)

- Company Name:
- Street Address:
- City: State: Zip:
- Attention: PO#

Requested Analysis (see TEST CODE sheet)

- A1: EPA 6010C TOTAL METALS CAS, BE, CU, NI, V, ZN
- A2: EPA 6010C TOTAL METALS (Sb, AS, BE, CU, PB, NI, SE, V, ZN)
- A3: DETECTION LIMITS MUST MEET GA GWPC
- A4: EPA 6020A LOW LEVEL TOTAL METALS (AS, BE, CU, NI, V, + ZN). REPORT RESULTS TO MDL ON A SEPARATE REPORT. DETECTION LIMITS MUST MEET GA GWPC and CT WQC

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB - Equipment Blank; RB - Rinse Blank; TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	A1	A2	A3	A4	LAB USE ONLY
-1	AOC12-MW305		6/16/16	0840	DL	GW	1			1							1				
-2	NRG-MW7		6/16/16	1305			1			1							1				
-3	AOC3-SB4-MW2		6/16/16	1135			1			1							1				
-4	AOC12-MW306		6/16/16	1020			1			1							1				
-5	AOC12-MW306 DUP		6/16/16	1020			1			1							1				6C
-6	AOC12-MW301		6/17/16	1125			1			1							1				
-7	AOC3-SB1-MW1		6/17/16	0925			1			1							1				
-8	AOC12-MW302		6/17/16	1230			1			1							1				
-9	~~NRG~~ EQUIPMENT BLANK		6/16/16	0750		LW	1			1								1			
-10	NRG-MW5		6/16/16	1445		GW	1			1										1	

INITIAL ASSESSMENT ___ LABEL VERIFICATION ___

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GISKEY
- [ ] Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

CTDEEP RCP + SITE SPECIFIC QAPP
~~DETECTION LIMITS MUST MEET~~
CT STANDARDS AND WATER QUALITY CRITERIA FOR NRG-MW5, REPORT RESULTS TO MDL ON SEPARATE REPORT FOR NRG-MW5

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/18/16 0680	1 P. Sasso	2 P. Sasso	6/21/16	2 [signature]
Relinquished by Sampler: 3 [signature]	Date Time: 6/21/16 1725	Received By: 3 [signature]	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐

On Ice ☑ Cooler Temp. 0.6°C

MC46508: Chain of Custody
Page 3 of 5

5.1
5

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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PAGE 2 OF 2

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC46508

Client / Reporting Information

Company Name: CB&I Environmental
Street Address: 150 Royall Street
City State Zip: Canton, MA 02021
Project Contact E-mail: Andrew Walker 617-589-6143
Phone # Fax #: 617-589-6143
Sampler(s) Name(s) Phone #: Daniel Leahy 617-212-8276

Project Information

Project Name: NRG Montville
Street: Lathrop Rd.
City: Uncasville, CT
Project#: 1009644013
Client PO#: 112003
Project Manager: Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
-11	NRG-MW8		6/17/16	0830	DL	GW	1			1							
-12	ACK1-SB2-MW1		6/16/16	1040	DL		1			1							
-13	MW-11		6/17/16	1345	DL		1			1							
-14	MW-6		6/16/16	0940	DL	V	1			1							

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GIS KEY
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

CTDEP RCP AND SITE SPECIFIC QAPP

Turnaround Time (Business days)

Approved By (Accutest PM): / Date:

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	6/18/16 0630	1 Y. Sasso	2 Y. Sasso	6/21/16	2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3	6/21/16 1727	3	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact / Not Intact	Preserved where applicable	On Ice	Cooler Temp.
5		5					

SGS Accutest Sample Receipt Summary

Job Number: MC46508 **Client:** CBI **Project:** NRG MONTVILLE

Date / Time Received: 6/21/2016 5:25:00 PM **Delivery Method:** SGS **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (0.6/0.6);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Thermometer ID:	IRGUN1;		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control _Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **CB&I**

Project Location: **NRG Montville Lathrop Road, Montville, CT** **Project Number:** **1009644010 PO#**

Sampling Date(s): **6/16/2016**

Laboratory Sample ID(s): MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Methods: SW846 6010C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☑ No ☐
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  Position: Lab Director

Printed Name: H. (Brad) Madadian Date: 7/5/2016
Accutest New England

Internal Sample Tracking Chronicle

CB&I

Job No: MC46508

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644013 PO#112003

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46508-1 Collected: 16-JUN-16 08:40 By: DL AOC12-MW305			Received: 21-JUN-16 By: NT			
MC46508-1	SW846 6010C	24-JUN-16 12:08	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-2 Collected: 16-JUN-16 13:05 By: DL NRG-MW7			Received: 21-JUN-16 By: NT			
MC46508-2	SW846 6010C	24-JUN-16 12:23	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-3 Collected: 16-JUN-16 11:35 By: DL AOC3-SB4-MW2			Received: 21-JUN-16 By: NT			
MC46508-3	SW846 6010C	24-JUN-16 12:28	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-4 Collected: 16-JUN-16 10:20 By: DL AOC12-MW306			Received: 21-JUN-16 By: NT			
MC46508-4	SW846 6010C	24-JUN-16 12:43	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-5 Collected: 16-JUN-16 10:20 By: DL AOC12-MW306 DUP			Received: 21-JUN-16 By: NT			
MC46508-5	SW846 6010C	24-JUN-16 12:48	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-6 Collected: 17-JUN-16 11:25 By: DL AOC12-MW301			Received: 21-JUN-16 By: NT			
MC46508-6	SW846 6010C	24-JUN-16 12:53	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-7 Collected: 17-JUN-16 09:25 By: DL AOC3-SB1-MW1			Received: 21-JUN-16 By: NT			
MC46508-7	SW846 6010C	24-JUN-16 12:58	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN
MC46508-8 Collected: 17-JUN-16 12:30 By: DL AOC12-MW-302			Received: 21-JUN-16 By: NT			
MC46508-8	SW846 6010C	24-JUN-16 13:02	EAL	23-JUN-16	EM	AS,BE,CU,NI,V,ZN

Internal Sample Tracking Chronicle

CB&I

Job No: MC46508

NRG Montville Lathrop Road, Montville, CT
Project No: 1009644013 PO#112003

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46508-9	Collected: 16-JUN-16 07:50 By: DL EQUIPMENT BLANK			Received: 21-JUN-16	By: NT	
MC46508-9	SW846 6010C	24-JUN-16 14:03	EAL	23-JUN-16	EM	AS,BE,CU,NI,PB,SB,SE,V,ZN
MC46508-11	Collected: 17-JUN-16 08:30 By: DL NRG-MW8			Received: 21-JUN-16	By: NT	
MC46508-11	SW846 6010C	24-JUN-16 13:12	EAL	23-JUN-16	EM	AS,NI,PB,SB,SE,V
MC46508-12	Collected: 16-JUN-16 10:40 By: DL AOC1-SB2-MW1			Received: 21-JUN-16	By: NT	
MC46508-12	SW846 6010C	24-JUN-16 13:17	EAL	23-JUN-16	EM	AS,NI,PB,SB,SE,V
MC46508-13	Collected: 17-JUN-16 13:45 By: DL MW-11			Received: 21-JUN-16	By: NT	
MC46508-13	SW846 6010C	24-JUN-16 13:22	EAL	23-JUN-16	EM	AS,NI,PB,SB,SE,V
MC46508-14	Collected: 16-JUN-16 09:40 By: DL MV-6			Received: 21-JUN-16	By: NT	
MC46508-14	SW846 6010C	24-JUN-16 13:27	EAL	23-JUN-16	EM	AS,BE,CU,NI,PB,SB,SE,V,ZN

QC Evaluation: CT RCP Limits

Job Number: MC46508
Account: CB&I
Project: NRG Montville Lathrop Road, Montville, CT
Collected: 06/16/16 thru 06/17/16

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Exceptions found.

* Sample used for QC is not from job MC46508

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	26	25		
Antimony	6.0	1.8	1.2	1.3	<6.0
Arsenic	4.0	2.8	2	-1.4	<4.0
Barium	50	.5	.57		
Beryllium	4.0	.18	.34	0.0	<4.0
Bismuth	50	3.1	1.8		
Boron	100	1.4	2.3		
Cadmium	4.0	.2	.3		
Calcium	5000	11	18		
Chromium	10	.57	1.1		
Cobalt	50	.26	.41		
Copper	25	.55	4.2	0.60	<25
Gold	50	1.2	1.3		
Iron	100	4.7	16		
Lead	5.0	1.1	1.1	-0.30	<5.0
Lithium	500	5.2	1.8		
Magnesium	5000	47	56		
Manganese	15	.051	.41		
Molybdenum	100	1.6	16		
Nickel	40	.34	.35	0.0	<40
Palladium	50	1.8	1.4		
Platinum	50	8.7	4.7		
Potassium	5000	74	78		
Selenium	10	2.8	3.4	-0.20	<10
Silicon	100	15	11		
Silver	5.0	.75	1.4		
Sodium	5000	23	35		
Sulfur	50	3.7	3.3		
Strontium	10	.27	.17		
Thallium	5.0	1.2	1.8		
Tin	100	.52	2.2		
Titanium	50	.54	.99		
Tungsten	100	4	23		

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	RL	IDL	MDL	MB raw	final
Vanadium	10	.52	.4	0.0	<10
Zinc	20	.79	1	2.0	<20
Zirconium	50	.36	2.6		

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	MC46508-1 Original	MS	Spikelot MPICP7	% Rec	QC Limits
Aluminum					
Antimony	0.0	509	500	101.8	75-125
Arsenic	29.4	531	500	100.3	75-125
Barium					
Beryllium	0.20	489	500	97.8	75-125
Bismuth					
Boron					
Cadmium					
Calcium					
Chromium					
Cobalt					
Copper	3.4	489	500	97.1	75-125
Gold					
Iron	anr				
Lead	0.0	988	1000	98.8	75-125
Lithium					
Magnesium					
Manganese					
Molybdenum					
Nickel	4.6	503	500	99.7	75-125
Palladium					
Platinum					
Potassium					
Selenium	0.0	498	500	99.6	75-125
Silicon					
Silver					
Sodium					
Sulfur					
Strontium					
Thallium					
Tin					
Titanium					
Tungsten					

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	MC46508-1 Original	MS	Spikelot MPICP7	% Rec	QC Limits
Vanadium	0.0	497	500	99.4	75-125
Zinc	22.7	559	500	107.3	75-125
Zirconium					

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	MC46508-1 Original	MSD	Spikelot MPICP7	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	0.0	490	500	98.0	3.8	20
Arsenic	29.4	509	500	95.9	4.2	20
Barium						
Beryllium	0.20	480	500	96.0	1.9	20
Bismuth						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper	3.4	470	500	93.3	4.0	20
Gold						
Iron	anr					
Lead	0.0	948	1000	94.8	4.1	20
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel	4.6	482	500	95.5	4.3	20
Palladium						
Platinum						
Potassium						
Selenium	0.0	478	500	95.6	4.1	20
Silicon						
Silver						
Sodium						
Sulfur						
Strontium						
Thallium						
Tin						
Titanium						
Tungsten						

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	MC46508-1 Original	MSD	Spikelot MPICP7	% Rec	MSD RPD	QC Limit
Vanadium	0.0	479	500	95.8	3.7	20
Zinc	22.7	534	500	102.3	4.6	20
Zirconium						

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16 06/23/16

Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony	503	500	100.6	80-120	505	500	101.0	0.4	20
Arsenic	493	500	98.6	80-120	497	500	99.4	0.8	20
Barium									
Beryllium	489	500	97.8	80-120	491	500	98.2	0.4	20
Bismuth									
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	484	500	96.8	80-120	491	500	98.2	1.4	20
Gold									
Iron	anr								
Lead	991	1000	99.1	80-120	992	1000	99.2	0.1	20
Lithium									
Magnesium									
Manganese									
Molybdenum									
Nickel	498	500	99.6	80-120	501	500	100.2	0.6	20
Palladium									
Platinum									
Potassium									
Selenium	493	500	98.6	80-120	493	500	98.6	0.0	20
Silicon									
Silver									
Sodium									
Sulfur									
Strontium									
Thallium									
Tin									
Titanium									
Tungsten									

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			06/23/16					06/23/16	
Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Vanadium	493	500	98.6	80-120	498	500	99.6	1.0	20
Zinc	538	500	107.6	80-120	541	500	108.2	0.6	20
Zirconium									

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	MC46508-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony	0.00	0.00	NC	0-10
Arsenic	29.4	27.9	5.1	0-10
Barium				
Beryllium	0.200	0.00	100.0(a)	0-10
Bismuth				
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	3.40	4.70	38.2 (a)	0-10
Gold				
Iron	anr			
Lead	0.00	0.00	NC	0-10
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel	4.60	4.90	6.5	0-10
Palladium				
Platinum				
Potassium				
Selenium	0.00	0.00	NC	0-10
Silicon				
Silver				
Sodium				
Sulfur				
Strontium				
Thallium				
Tin				
Titanium				
Tungsten				

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC46508
Account: FDG - CB&I
Project: NRG Montville Lathrop Road, Montville, CT

QC Batch ID: MP26448
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 06/23/16

Metal	MC46508-1 Original	SDL 1:5	%DIF	QC Limits
Vanadium	0.00	0.00	NC	0-10
Zinc	22.7	23.4	3.1	0-10
Zirconium				

Associated samples MP26448: MC46508-1, MC46508-2, MC46508-3, MC46508-4, MC46508-5, MC46508-6, MC46508-7, MC46508-8, MC46508-9, MC46508-11, MC46508-12, MC46508-13, MC46508-14

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

e-Hardcopy 2.0
Automated Report

Technical Report for

CB&I

NRG Montville Lathrop Rd. Uncasville, CT

1009644013. PO#112003

SGS Accutest Job Number: MC46508A

Sampling Date: 06/16/16

Report to:

vallerie.sasso@cbi.com

ATTN: Distribution6

Total number of pages in report: **20**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

H. (Brad) Madadian
Lab Director

Client Service contact: Frank DAgostino 508-481-6200

Certifications: MA (M-MA136,SW846 NELAC) CT (PH-0109) NH (250210) RI (00071) ME (MA00136) FL (E87579) NY (11791) NJ (MA926) PA (6801121) ND (R-188) CO MN (11546AA) NC (653) IL (002337) WI (399080220) DoD ELAP (L-A-B L2235)

Sections: 1 2 3 4 5 6

Table of Contents

Sample Summary

CB&I

Job No: MC46508A

NRG Montville Lathrop Rd. Uncasville, CT
Project No: 1009644013. PO#112003

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC46508-10	06/16/16	14:45	DL	06/21/16	AQ	Ground Water	NRG-MW5

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: CB&I **Job No** MC46508A

Site: NRG Montville Lathrop Rd. Uncasville, CT **Report Date** 7/5/2016 8:19:26 AM

1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on 06/16/2016 and were received at SGS Accutest New England on 06/21/2016 properly preserved, at 0.6 Deg. C and intact. These Samples received a job number of MC46508A. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Metals By Method SW846 6020A

Matrix: AQ **Batch ID:** MP26454

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46569-1SDL were used as the QC samples for metals.
- Only selected metals requested.
- RPD(s) for Serial Dilution for Beryllium, Vanadium are outside control limits for sample MP26454-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP26454-SD1 for Nickel: Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
- MP26454-SD1 for Zinc: Serial dilution indicates possible matrix interference.

SGS Accutest New England certifies that all analysis were performed within method specification. It is further recommended that this report to be used in its entirety.The Laboratory Director for SGS Accutest New England or assignee as verified by the signature on the cover page has authorized the release of this report(MC46508A).

Summary of Hits

Job Number: MC46508A
Account: CB&I
Project: NRG Montville Lathrop Rd. Uncasville, CT
Collected: 06/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46508-10	**NRG-MW5**					
Arsenic		4.7	1.0	0.62	ug/l	SW846 6020A
Beryllium		0.097 B	1.0	0.040	ug/l	SW846 6020A
Copper		0.53 B	2.0	0.34	ug/l	SW846 6020A
Nickel		9.7	4.0	0.22	ug/l	SW846 6020A
Vanadium		7.9 B	8.0	3.0	ug/l	SW846 6020A
Zinc		28.9	8.0	1.5	ug/l	SW846 6020A

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: NRG-MW5
Lab Sample ID: MC46508-10
Matrix: AQ - Ground Water
Project: NRG Montville Lathrop Rd. Uncasville, CT

Date Sampled: 06/16/16
Date Received: 06/21/16
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.7	1.0	0.62	ug/l	2	06/24/16	06/29/16	EAL	SW846 6020A [2]	SW846 3010A [3]
Beryllium	0.097 B	1.0	0.040	ug/l	2	06/24/16	06/27/16	EAL	SW846 6020A [1]	SW846 3010A [3]
Copper	0.53 B	2.0	0.34	ug/l	2	06/24/16	06/27/16	EAL	SW846 6020A [1]	SW846 3010A [3]
Nickel	9.7	4.0	0.22	ug/l	2	06/24/16	06/27/16	EAL	SW846 6020A [1]	SW846 3010A [3]
Vanadium	7.9 B	8.0	3.0	ug/l	2	06/24/16	06/27/16	EAL	SW846 6020A [1]	SW846 3010A [3]
Zinc	28.9	8.0	1.5	ug/l	2	06/24/16	06/27/16	EAL	SW846 6020A [1]	SW846 3010A [3]

(1) Instrument QC Batch: MA19273
(2) Instrument QC Batch: MA19281
(3) Prep QC Batch: MP26454

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- RCP Form
- Sample Tracking Chronicle
- QC Evaluation: CT RCP Limits

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #:
Bottle Order Control #:
Accutest Quote #:
Accutest Job #: MC46508A

Client / Reporting Information

Company Name	CB&I Environmental
Street Address	150 Royall Street
City / State / Zip	Canton, MA 02021
Project Contact / E-mail	Andrew.Walker@cbi.com
Phone # / Fax #	617-589-6143
Sampler(s) Name(s) / Phone #	Daniel Leahy 617-212-8276

Project Information

Project Name	NRG Montville
Street	Lathrop Rd.
City	Uncasville, CT
Project#	1009644013
Client PO#	112003
Project Manager	Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

1. EPA 6010C TOTAL METALS (As, Be, Cu, Ni, V, Zn)
2. EPA 6010C TOTAL METALS (An, As, Be, Cu, Pb, Ni, Sb, V, Zn)
3. DETECTION LIMITS MUST MEET GA GWPC
4. EPA 6020A LOW LEVEL TOTAL METALS (As, Be, Cu, Ni, V + Zn). REPORT RESULTS TO MDL ON A SEPARATE REPORT. DETECTION LIMITS MUST MEET GA GWPC

Matrix Codes
DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED - Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB - Equipment Blank
RB - Rinse Blank
TB - Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	Analysis 1	Analysis 2	Analysis 3	Analysis 4	LAB USE ONLY
	AOC12-MW305		6/16/16	0840	DL	GW	1			1							1				
	NRG-MW7		6/16/16	1305			1			1							1				
	AOC3-SB4-MW2		6/16/16	1135			1			1							1				
	AOC12-MW306		6/16/16	1020			1			1							1				
	AOC12-MW306 DUP		6/16/16	1020			1			1							1				
	AOC12-MW301		6/17/16	1125			1			1							1				
	AOC3-SB1-MW1		6/17/16	0925			1			1							1				
	AOC12-MW302		6/17/16	1230			1			1							1				
	~~NRG~~ EQUIPMENT BLANK		6/16/16	0750		EW	1			1							[illegible]	1			
-10	NRG-MW5		6/16/16	1445		GW	1			1										1	

incorrect abbreviation 'An' should be 'Sb' for antimony.

Detection limits must meet GA GWPC and CT WQC.

Turnaround Time (Business days)
- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GISKEY
- [ ] Other ______

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

CTDEP RCP + SITE SPECIFIC QAPP
~~DETECTION LIMITS MUST MEET~~
CT STANDARDS AND WATER QUALITY CRITERIA FOR NRG-MW5. REPORT RESULTS TO MDL ON SEPARATE REPORT FOR NRG-MW5

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/18/16 0630	1	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

REVISED 6/21/16 TT

5.1
5

MC46508A: Chain of Custody
Page 1 of 5

CHAIN OF CUSTODY

ACCUTEST LABORATORIES

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: MC46508A

Client / Reporting Information

Company Name: CB&I Environmental
Street Address: 150 Royall Street
City State Zip: Canton, MA 02021
Project Contact E-mail: Andrew Walker 617-589-6143
Phone # Fax #: 617-589-6143
Sampler(s) Name(s) Phone #: Daniel Leahy 617-212-8276

Project Information

Project Name: NRG Montville
Street: Lathrop Rd.
City: Uncasville, CT
Project #: 1009644013
Client PO#: 112003
Project Manager: Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
	NRG-MW8		6/17/16	0830	DL	GW	1		1							1	
	ACI-SB2-MW1		6/16/16	1040	DL		1		1							1	
	MW-11		6/17/16	1345	DL		1		1							1	
	MV-6		6/16/16	0940	DL	V	1		1							1	

incorrect abbreviation 'An' should be 'Sb' for antimony.

incorrect abbreviation 'An' should be 'Sb' for antimony.

sample 'MV-6' also needs to be analyzed for beryllium, copper, and zinc.

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Labiink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GIS KEY
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

CTDEP RCP AND SITE SPECIFIC QAPP

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		6/18/16 0630	1	2		2
3			3	4		4
5			5			

Custody Seal # ☐ Intact ☐ Not Intact | Preserved where applicable ☐ | On Ice ☐ | Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

PAGE 1 OF 2

FED-EX Tracking #	Bottle Order Control # MC46508
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name	CB&I Environmental
Street Address	150 Royall Street
City, State, Zip	Canton, MA 02021
Project Contact / E-mail	Andrew.Walker@cbi.com
Phone # / Fax #	617-589-6143
Sampler(s) Name(s) / Phone #	Daniel Leahy 617-212-8276

Project Information

Project Name	NRG Montville
Street	Lathrop Rd.
City	Uncasville, CT
Project#	1009644013
Client PO#	112003
Project Manager	Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City: State: Zip:
Attention: PO#:

Requested Analysis (see TEST CODE sheet)

- A: EPA 6010C TOTAL METALS (As, Be, Cu, Ni, V, Zn)
- B: EPA 6010C TOTAL METALS (As, Be, Cu, Pb, Ni, Sb, Se, V, Zn)
- C: DETECTION LIMITS MUST MEET GA GWPC
- D: EPA 6020A LOW LEVEL TOTAL METALS (As, Be, Cu, Ni, V, + Zn), REPORT RESULTS TO MDL AND SEPARATE REPORT; DETECTION LIMITS MUST MEET GA GWPC and CT WQC

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	A	B	C	D	LAB USE ONLY
-1	AOC12-MW305		6/16/16	0840	DL	GW	1			1							1				
-2	NRG-MW7		6/16/16	1305			1			1							1				
-3	AOC3-SB4-MW2		6/16/16	1135			1			1							1				
-4	AOC12-MW306		6/16/16	1020			1			1							1				
-5	AOC12-MW306 DUP		6/16/16	1020			1			1							1				6C
-6	AOC12-MW301		6/17/16	1125			1			1							1				
-7	AOC3-SB1-MW1		6/17/16	0925			1			1							1				
-8	AOC12-MW302		6/17/16	1230			1			1							1				
-9	~~NRG~~ EQUIPMENT BLANK		6/16/16	0750		EW	1			1								1			
-10	NRG-MW5		6/16/16	1445		GW	1			1										1	

INITIAL ASSESSMENT PB
LABEL VERIFICATION PB

Matrix Codes: DW - Drinking Water, GW - Ground Water, WW - Water, SW - Surface Water, SO - Soil, SL - Sludge, SED - Sediment, OI - Oil, LIQ - Other Liquid, AIR - Air, SOL - Other Solid, WP - Wipe, FB - Field Blank, EB - Equipment Blank, RB - Rinse Blank, TB - Trip Blank

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] Std. 5 Business Days (By Contract only)
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] CT RCP
- [ ] MA MCP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format GISKEY
- [ ] Other ________

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

CTDEP RCP + SITE SPECIFIC QAPP
~~DETECTION LIMITS MUST MEET~~ CT STANDARDS AND WATER QUALITY CRITERIA FOR ~~NRG-MW5~~, REPORT RESULTS TO MDL ON SEPARATE REPORT FOR NRG-MW5

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/18/16 0630	1 P. Sasso	2 P. Sasso	6/21/16 [illegible]	2 [signature]
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3 [signature]	6/21/16 1715	3 [signature]	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☑ Cooler Temp. 0.6°C
5		5			

5.1

5

MC46508A: Chain of Custody
Page 3 of 5

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Laboratories of New England
495 Technology Center West, Building One
TEL. 508-481-6200 FAX: 508-481-7753
www.accutest.com

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # MC46508

Client / Reporting Information

Company Name: CB&I Environmental
Street Address: 150 Royall Street
City, State, Zip: Canton, MA 02021
Project Contact / E-mail: Andrew Walker 617-589-6143
Phone #: 617-589-6143
Fax #:
Sampler(s) Name(s) / Phone #: Daniel Leahy 617-212-8276

Project Information

Project Name: NRG Montville
Street: Lathrop Rd.
City: Uncasville, CT
Project#: 1009644013
Client PO#: 112003
Project Manager: Andrew Walker

Billing Information (If different from Report to)

Company Name:
Street Address:
City / State / Zip:
Attention: / PO#

Requested Analysis (see TEST CODE sheet): RCRA 6010C (Sb, As, Pb, Ni, Se) Total Metals; Detection Limits Must Meet GA GWPC; RCRA 6010C Total Metals (Sb, As, Pb, Ni, Se); Be, Cu, Zn

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	RCRA 6010C / GA GWPC	RCRA 6010C Total Metals	Be, Cu, Zn	LAB USE ONLY
-11	NRG-MW8		6/17/16	0830	DL	GW	1			1							✓			
-12	AOC1-SB2-MW1		6/16/16	1040	DL	↓	1			1								✓		
-13	MW-11		6/17/16	1345	DL	↓	1			1								✓		
-14	MV-6		6/16/16	0940	DL	↓	1			1								✓	✓	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB- Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Turnaround Time (Business days)

- ☑ Std. 10 Business Days
- ☐ Std. 5 Business Days (By Contract only)
- ☐ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULLT1 (Level 3+4)
- ☒ CT RCP
- ☐ MA MCP
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☒ EDD Format GIS Key
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Comments / Special Instructions

CTDEP RCP AND SITE SPECIFIC QAPP

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	6/18/16 0630	1 T. Sasso	2 T. Sasso	6/21/16 1605	2 Will [signature]
3 Will [signature]	6/21/16 1725	3 Will [signature]	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact	Preserved where applicable ☐ On Ice ☐ Cooler Temp.

MC46508

revised COC for NRG-Montville samples (picked up at Canton Monday)

Steele, Andrea [Andrea.Steele@cbi.com]

Sent: Tuesday, June 21, 2016 8:14 AM

To: D'Agostino, Frank (Marlborough)

Cc: Sasso, Vallerie [Vallerie.Sasso@cbi.com]; Walker, Andrew [Andrew.Walker@cbi.com]

Attachments: 06-16-2016 GW revised COC.pdf (1 MB)

Frank –

Please see attached revised COC for the NRG-Montville project groundwater samples picked up at our Canton office yesterday.

Thank you – Andrea.

Andrea E. Steele
Environmental Scientist
Environmental & Sustainability
Facilities & Plant Services
Capital Services
Cell: +1 774 573 9090
Fax: +1 617 589 5495
andrea.steele@CBI.com

CB&I
150 Royall Street
Canton, MA 02021
USA
www.CBI.com

Reasonable Confidence Protocol
Laboratory Analysis
QA/QC Certification Form

Laboratory Name: **Accutest New England** **Client:** **CB&I**

Project Location: **NRG Montville Lathrop Rd. Uncasville, CT** **Project Number:** **1009644013. PO#**

Sampling Date(s): **6/16/2016**

Laboratory Sample ID(s): MC46508-10

Methods: SW846 6020A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents)?	Yes ☑ No ☐
1A	Where all the method specified preservation and holding time requirements met?	Yes ☑ No ☐
1B	VPH and EPH mehods only: Was the VPH or EPH method conducted without significant modifications (See section 11.3 of respective methods)	Yes ☐ No ☐ NA ☑
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes ☑ No ☐
3	Were samples received at an appropriate temperature (<6° C)?	Yes ☑ No ☐
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	Yes ☐ No ☑
5	a) Were reporting limits specified or referenced on the chain-of-custody?	Yes ☑ No ☐
	b) Were these reporting limits met?	Yes ☑ No ☐
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes ☐ No ☑
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes ☐ No ☑

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Lab Director

Printed Name: H. (Brad) Madadian Accutest New England Date: 7/5/2016

Internal Sample Tracking Chronicle

CB&I

Job No: MC46508A

NRG Montville Lathrop Rd. Uncasville, CT
Project No: 1009644013. PO#112003

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46508-10	Collected: 16-JUN-16 14:45 By: DL			Received: 21-JUN-16 By: NT		
NRG-MW5						
MC46508-10	SW846 6020A	27-JUN-16 12:43	EAL	24-JUN-16	EM	BEMS,CUMS,NIMS,VMS,ZNMS
MC46508-10	SW846 6020A	29-JUN-16 14:04	EAL	24-JUN-16	EM	ASMS

QC Evaluation: CT RCP Limits

Job Number: MC46508A
Account: CB&I
Project: NRG Montville Lathrop Rd. Uncasville, CT
Collected: 06/16/16

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits

No Exceptions found.

* Sample used for QC is not from job MC46508A

Metals Analysis

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: MC46508A
Account: FDG - CB&I
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP26454
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 06/24/16

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.46	4.2		
Antimony	1.0	.019	.032		
Arsenic	1.0	.078	.62	-0.38	<1.0
Barium	2.0	.024	.15		
Beryllium	1.0	.0042	.04	0.0099	<1.0
Boron	10	.03	.38		
Cadmium	1.0	.0074	.04		
Calcium	500	15	72		
Chromium	2.0	.36	.34		
Cobalt	1.0	.003	.019		
Copper	2.0	.013	.34	0.074	<2.0
Iron	50	.5	15		
Lead	1.0	.006	.048		
Magnesium	500	.11	1.7		
Manganese	4.0	.03	.36		
Molybdenum	2.0	.068	.088		
Nickel	4.0	.012	.22	-0.56	<4.0
Potassium	500	7.6	18		
Selenium	2.0	.19	.22		
Silver	1.0	.0034	.024		
Sodium	500	.82	15		
Strontium	10	.0068	.028		
Thallium	1.0	.015	.06		
Tin	10	.011	1.6		
Titanium	2.0	.15	.13		
Vanadium	8.0	.36	3	7.4	<8.0
Zinc	8.0	.032	1.5	0.37	<8.0

Associated samples MP26454: MC46508-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: MC46508A
Account: FDG - CB&I
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP26454
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date:			06/24/16				06/24/16		
Metal	BSP Result	Spikelot MPICP7	% Rec	QC Limits	BSD Result	Spikelot MPICP7	% Rec	BSD RPD	QC Limit
Aluminum									
Antimony									
Arsenic	524	500	104.8	80-120	517	500	103.4	1.3	
Barium									
Beryllium	484	500	96.8	80-120	499	500	99.8	3.1	
Boron									
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper	471	500	94.2	80-120	462	500	92.4	1.9	
Iron	anr								
Lead									
Magnesium									
Manganese	anr								
Molybdenum									
Nickel	480	500	96.0	80-120	470	500	94.0	2.1	
Potassium									
Selenium									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Vanadium	498	500	99.6	80-120	490	500	98.0	1.6	
Zinc	489	500	97.8	80-120	480	500	96.0	1.9	

Associated samples MP26454: MC46508-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: MC46508A
Account: FDG - CB&I
Project: NRG Montville Lathrop Rd. Uncasville, CT

QC Batch ID: MP26454
Matrix Type: AQUEOUS

Methods: SW846 6020A
Units: ug/l

Prep Date: 06/24/16

Metal	MC46569-1 Original	SDL 2:10	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	207	212	2.5	0-10
Barium				
Beryllium	0.0169	0.0474	180.4(a)	0-10
Boron				
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper	6.34	6.24	1.6	0-10
Iron	anr			
Lead				
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	1.22	1.06	13.6 (b)	0-10
Potassium				
Selenium				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Vanadium	9.82	19.0	93.6 (a)	0-10
Zinc	19.4	27.0	39.4 (c)	0-10

Associated samples MP26454: MC46508-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial Dilution RPD acceptable due to low duplicate and sample concentrations.
(c) Serial dilution indicates possible matrix interference.

ATTACHMENT 2

ENGINEERED CONTROL INSPECTION REPORTS

Table 1
Engineered Control Inspection Checklist
Montville Generating Station
Montville, CT

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe
ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe
SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe
SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe
GD 1 or 2 = Vegetation Dead, Moderate or Severe
GE 1 or 2 = Vegetation Erosion, Moderate or Severe
GP = Vegetation Water Ponding Observed
GSF = Vegetation Slope Failure
GSW = Vegetation Subsurface Washout
PDSO = Perimeter Drainage Swale Obstructed
DCO = Drainage Culvert Obstructed
AP C1 = Asphalt Pavement Cracks > 1/2 inch
AP C2 = Asphalt Pavement "pothole"
SF = Slope Failure
O = Other

NC = NO CHANGE SINCE CONSTRUCTION COMPLETED

Remedial Areas (1)	Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B	1	—	WEST PAV'T & STONE - NO CHANGE
Existing Asphalt Engineered Control	2	—	EAST PAV'T + STONE - NO CHANGE
	3	—	INSIDE CONTAINMENT STONE - NO CHANGE
Prior Repair Area (4) N/A			FIRST QTRLY INSPECTION
	4	—	NORTH CONCRETE + WALL - NO CHANGE
AOC 9			
Low Permeability Engineered Controls	-		GRASS OK - NO CHANGE
			COVER OK - N.C.
Prior Repair Area (4)	N/A		
AOC 12			& EAST & WEST OF AOC6
Aggregate Engineered Control	1		S OF TANK, STONE + RIP RAP TO GATE - N.C
	2		N OF GATES N. C.
Existing Asphalt Engineered Control	1		S OF TANKS - NO CHANGE
	2		N OF GATE STONE & RIP RAP N. C
Prior Repair Area (4)	N/A		

(1) Use Sheets 2, 4, 5 and 6 of the Engineered Control Drawings for the Inspection Plan.
(2) At least one photograph should accompany each location number.
(3) Supplementary computations and design text may be required for significant repairs
(4) Document condition of each area identified and repaired during previous inspection.

CRACK SEALING & PAV'T N, W OF PLANT BLDG - NO CHANGE, REMOVED SEALED LINES, NO REPAIR NEEDED

AOC 6 STONE - N.C.

AOC 7A STONE - N. C.

CB&I Environmental and Infrastructure, Inc.
Photographic Record

Client:	NRG Montville	**Project Number:**	1009644013
Site Name:	EC Post Construction Inspection Q1 2016	**Site Location:**	Montville, CT

Photographer: Paul Farrington

Date: 02/02/2016

Direction: Northeast

Comments:

AOC 3B and pavement crack sealing NW of plant building.

No change since construction complete.

Photographer: Paul Farrington

Date: 02/02/2016

Direction West

Comments:

AOC 3B East end of containment.

No change since construction complete.

CB&I Environmental and Infrastructure, Inc.
Photographic Record

Client:	NRG Montville	**Project Number:**	1009644013
Site Name:	EC Post Construction Inspection Q1 2016	**Site Location:**	. Montville, CT

Photographer: Paul Farrington

Date: 02/02/2016

Direction: South

Comments:

AOC 3B West portion of containment.

No change since construction complete.

Photographer: Paul Farrington

Date: 02/02/2016

Direction East

Comments:

AOC 9 Eastern portion.

No change since construction complete.

CB&I Environmental and Infrastructure, Inc.
Photographic Record

Client:	NRG Montville	**Project Number:**	1009644013
Site Name:	EC Post Construction Inspection Q1 2016	**Site Location:**	. Montville, CT

Photographer: Paul Farrington

Date: 02/02/2016

Direction: West

Comments:

AOC 9 Western portion.

No change since construction complete.

Photographer: Paul Farrington

Date: 02/02/2016

Direction North

Comments:

AOC 12 West of dock. Perimeter road.

No change since construction complete.

CB&I Environmental and Infrastructure, Inc.
Photographic Record

Client:	NRG Montville	**Project Number:**	1009644013
Site Name:	EC Post Construction Inspection Q1 2016	**Site Location:**	. Montville, CT

Photographer: Paul Farrington

Date: 02/02/2016

Direction: East

Comments:

AOC 12 N of lagoon. Shoreline and perimeter road.

No change since construction complete.

Photographer: Paul Farrington

Date: 02/02/2016

Direction North

Comments:

AOC 12 SW of Treatment Pond.

No change since construction complete.

Post-Construction Engineered Control Inspection Checklist
Montville Generating Station
Montville, CT

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe
ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe
SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe
SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe
GD 1 or 2 = Vegetation Dead, Moderate or Severe
GE 1 or 2 = Vegetation Erosion, Moderate or Severe
GP = Vegetation Water Ponding Observed
GSF = Vegetation Slope Failure
GSW = Vegetation Subsurface Washout
PDSO = Perimeter Drainage Swale Obstructed
DCO = Drainage Culvert Obstructed
AP C1 = Asphalt Pavement Cracks > 1/2 inch
AP C2 = Asphalt Pavement "pothole"
SF = Slope Failure
FSLD = Fencing, Signage, Locks Damaged
SLM = Signage, Locks Missing
O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)			
Concrete Engineered Control - W end AOC 3B (interior)			
Stone Inside Containment (interior)			
Aggregate Engineered Control - E side of AOC 3B (exterior)			
Existing Asphalt Engineered Control - AOC 3B East to river			
Prior Repair Area (4)			
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate
Access Control Fencing and Signage			
Prior Repair Area (4)			
AOC 9, Former Dredge Spoils Location			access through locked gate
Low Permeability Engineered Control - East			THICK GRASS COVERING - OK NO EROSION
Surrounding Topsoil and Seeding			THICK GRASS COVERING - OK NO EROSION
Low Permeability Engineered Control - West			MODERATE GRASS COVERING - OK NO EROSION
Access Control Fencing and Signage			
Prior Repair Area (4)			
AOC 12, Former Coal and Coal Ash Handling Area			access to portions of AOC 12 through locked gate(s)
Aggregate Engineered Control - N of AOC 3A			
Aggregate Engineered Control - AOC 3A and West			
Aggregate Engineered Control - S of AOC 3A			
Existing Asphalt Engineered Control - E of AOC 3A			ASPHALT RECENTLY RESEALED - GOOD CONDITION
Aggregate and Rip Rap Shoreline - at and N of dock			IN VERY GOOD CONDITION
Rip Rap Shoreline - S of dock			
Existing Asphalt Engineered Control - E of AOC 6			
Aggregate Engineered Control - AOC 6 and surround			
Existing Asphalt Engineered Control - W of AOC 6			
Existing Asphalt Engineered Control - N and W of Main Building			
Aggregate Engineered Control - around AOC 1			
Prior Repair Area (4)			

6/17 DL

6/17 DL

(1) Use Sheets 2 and 3 of the As-Built Engineered Control Drawing last revised 2/18/2016 for the Inspection Plan.
(2) At least one photograph should accompany each location (line item). Mark corresponding photo location number on Inspection Plan.
(3) Supplementary computations and design text may be required for significant repairs
(4) Document condition of each area identified and repaired during previous inspection.

Post-Construction Engineered Control Inspection Checklist
Montville Generating Station, Montville, CT

Completed by (PRINT): Austin Magnant

Company: CB+I

Signature:

Date: 06-16-16

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe
ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe
SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe
SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe
GD 1 or 2 = Vegetation Dead, Moderate or Severe
GE 1 or 2 = Vegetation Erosion, Moderate or Severe
GP = Vegetation Water Ponding Observed
GSF = Vegetation Slope Failure
GSW = Vegetation Subsurface Washout

PDSO = Perimeter Drainage Swale Obstructed
DCO = Drainage Culvert Obstructed
AP C1 = Asphalt Pavement Cracks > 1/2 inch
AP C2 = Asphalt Pavement "pothole"
SF = Slope Failure
FSLD = Fencing, Signage, Locks Damaged
SLM = Signage, Locks Missing
O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)			
Concrete Engineered Control - W end AOC 3B (interior)	14		concrete wall in good condition, no observed cracks, holes
Stone Inside Containment (interior)	15,16		stone provides 100% cover inside containment
Aggregate Engineered Control - E side of AOC 3B (exterior)			Photo 19, stone in good condition
Existing Asphalt Engineered Control - AOC 3B East to river			photos 17, 18, asphalt in good condition, no holes or standing water
Prior Repair Area (4)			N/A
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection, access through locked gate
Access Control Fencing and Signage	20		multiple photos of fencing, fencing all intact, no holes, no vegetation on fence
Prior Repair Area (4)			N/A all doors/gates were locked, signs present
AOC 9, Former Dredge Spoils Location			access through locked gate
Low Permeability Engineered Control - East			
Surrounding Topsoil and Seeding			
Low Permeability Engineered Control - West			
Access Control Fencing and Signage	21		proper signage, gate was locked and secure
Prior Repair Area (4)			N/A
AOC 12, Former Coal and Coal Ash Handling Area			access to portions of AOC 12 through locked gate(s)
Aggregate Engineered Control - N of AOC 3A			no access, completed 06-17 by D.L.
Aggregate Engineered Control - AOC 3A and West	3		roadway and stone are in good condition
Aggregate Engineered Control - S of AOC 3A	1,2		stone on both sides of fence in good condition, 100% cover
Existing Asphalt Engineered Control - E of AOC 3A			no access, completed 06-17 by D.L
Aggregate and Rip Rap Shoreline - at and N of dock			no access, completed 06-17 by D.L
Rip Rap Shoreline - S of dock	4,5		stone on shoreline in good condition
Existing Asphalt Engineered Control - E of AOC 6	6		asphalt in good condition, appears new
Aggregate Engineered Control - AOC 6 and surround	7,8		stone in AOC6 and surrounding area in good condition, 100% cover
Existing Asphalt Engineered Control - W of AOC 6	9		asphalt in good condition, appears new
Existing Asphalt Engineered Control - N and W of Main Bldg.			Photos 10,11 all asphalt N and W of Main Building is in good condition
Aggregate Engineered Control - around AOC 1	12,13		stone around AOC1 in good condition, 100% cover
Prior Repair Area (4)			N/A

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(4) Document condition of each area identified and repaired during previous inspection.

Post-Construction Engineered Control Inspection Checklist
Montville Generating Station, Montville, CT

Completed by (PRINT): P. FARRINGTON/A. MAGNANT Company: CB+I

Signature: Date: 10-13-16

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe
ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe
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SCSW 1 or 2 = Soil Cover Subsurface Washout, Moderate or Severe
GD 1 or 2 = Vegetation Dead, Moderate or Severe
GE 1 or 2 = Vegetation Erosion, Moderate or Severe
GP = Vegetation Water Ponding Observed
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GSW = Vegetation Subsurface Washout
PDSO = Perimeter Drainage Swale Obstructed
DCO = Drainage Culvert Obstructed
AP C1 = Asphalt Pavement Cracks > 1/2 inch
AP C2 = Asphalt Pavement "pothole"
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SLM = Signage, Locks Missing
O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)			
Concrete Engineered Control - W end AOC 3B (interior)	10		good condition, no standing water, no cracks observed
Stone Inside Containment (interior)	13		good condition, no change since end of construction
Aggregate Engineered Control - E side of AOC 3B (exterior)	14		good condition, no change since construction
Existing Asphalt Engineered Control - AOC 3B East to river	15		good condition
Prior Repair Area (4)			
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate
Access Control Fencing and Signage	17, 18, 19, 20		cleared access route is overgrown, signs present
Prior Repair Area (4)		GD2	overgrown vegetation, needs to be maintained
AOC 9, Former Dredge Spoils Location			access through locked gate
Low Permeability Engineered Control - East	21		well vegetated, consider mowing
Surrounding Topsoil and Seeding	23		well vegetated, consider mowing
Low Permeability Engineered Control - West	22		well vegetated, no erosion, consider mowing, deer paths obvious
Access Control Fencing and Signage			good condition, overgrown as pre-construction, signage present
Prior Repair Area (4)			
AOC 12, Former Coal and Coal Ash Handling Area			access to portions of AOC 12 through locked gate(s)
Aggregate Engineered Control - N of AOC 3A	1		photo ~~124~~ 199, good condition, no change since construction
Aggregate Engineered Control - AOC 3A and West	2		photo 450, good condition, no change since construction
Aggregate Engineered Control - S of AOC 3A	3		
Existing Asphalt Engineered Control - E of AOC 3A	4		asphalt good condition, no change since construction, use EB photo
Aggregate and Rip Rap Shoreline - at and N of dock	5		use EB photo
Rip Rap Shoreline - S of dock	6		good condition, no change since construction
Existing Asphalt Engineered Control - E of AOC 6	9		good condition, no change since construction
Aggregate Engineered Control - AOC 6 and surround	7		good condition, no change since construction
Existing Asphalt Engineered Control - W of AOC 6	8		good condition, no change since construction
Existing Asphalt Engineered Control - N and W of Main Bldg.	11, 12		good condition, no change since construction
Aggregate Engineered Control - around AOC 1	16		good condition, no change since construction
Prior Repair Area (4)			

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Post-Construction Engineered Control Inspection Checklist
Montville Generating Station, Montville, CT

Completed by (PRINT): Ian Cambridge

Company: Montvile Power LLC

Signature:

Date: 9/19/2016

Problem Code

ACE 1 or 2 = Aggregate Cover Erosion, Moderate or Severe
ACSW 1 or 2 = Aggregate Cover Subsurface Washout, Moderate or Severe
SCE 1 or 2 = Soil Cover Erosion, Moderate or Severe
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SLM = Signage, Locks Missing
O = Other

Remedial Areas (1)	Photo Location (1) (2)	Problem Code	Repair Requirements and Notes (Provide Description) (3)
AOC 3B, Petroleum Storage Area (Day Tank)	**Attached**	**NA**	No issues noted
Concrete Engineered Control - W end AOC 3B (interior)	**Attached**	**NA**	No issues noted
Stone Inside Containment (interior)	**Attached**	**NA**	No issues noted
Aggregate Engineered Control - E side of AOC 3B (exterio	**Attached**	**NA**	No issues noted
Existing Asphalt Engineered Control - AOC 3B East to riv	**Attached**	**NA**	No issues noted
Prior Repair Area (4)	**Attached**	**NA**	No issues noted
AOC 5, Former Ash Settling Ponds			walk perimeter security fence for inspection; access through locked gate
Access Control Fencing and Signage	**Attached**	**NA**	Fence is elevated in somes areas. Allows access to smaller animals.
Prior Repair Area (4)	**Attached**	**NA**	No issues noted
AOC 9, Former Dredge Spoils Location			access through locked gate
Low Permeability Engineered Control - East	**Attached**	**NA**	No issues noted
Surrounding Topsoil and Seeding	**Attached**	**NA**	No issues noted - Good vegetation
Low Permeability Engineered Control - West	**Attached**	**NA**	No issues noted
Access Control Fencing and Signage	**Attached**	**NA**	No issues noted
Prior Repair Area (4)	**Attached**	**NA**	No issues noted
AOC 12, Former Coal and Coal Ash Handling Area			access to portions of AOC 12 through locked gate(s)
Aggregate Engineered Control - N of AOC 3A	**Attached**	**NA**	No issues noted
Aggregate Engineered Control - AOC 3A and West	**Attached**	**NA**	No issues noted
Aggregate Engineered Control - S of AOC 3A	**Attached**	**NA**	No issues noted
Existing Asphalt Engineered Control - E of AOC 3A	**Attached**	**NA**	No issues noted
Aggregate and Rip Rap Shoreline - at and N of dock	**Attached**	**NA**	No issues noted
Rip Rap Shoreline - S of dock	**Attached**	**NA**	No issues noted
Existing Asphalt Engineered Control - E of AOC 6	**Attached**	**NA**	No issues noted
Aggregate Engineered Control - AOC 6 and surround	**Attached**	**NA**	No issues noted
Existing Asphalt Engineered Control - W of AOC 6	**Attached**	**NA**	No issues noted
Existing Asphalt Engineered Control - N and W of Main B	**Attached**	**NA**	No issues noted
Aggregate Engineered Control - around AOC 1	**Attached**	**NA**	No issues noted
Prior Repair Area (4)	**Attached**	**NA**	No issues noted
General Notes:			Some areas of asphalt have cracks encroaching the 1/2 " mark. Areas will be identified and resealed when feasible

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